



FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES
SMALL AIRCRAFT, ROTORCRAFT, GLIDERS,
BALLOONS, & AIRSHIPS

BIWEEKLY 2000-01

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U.S. Department of Transportation
Federal Aviation Administration
Regulatory Support Division
Airworthiness Programs Branch, AFS-610
P. O. Box 26460
Oklahoma City, OK 73125-0460
FAX 405-954-4104

SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
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Biweekly 2000-01

99-27-02		Cessna	170B, 172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, +
99-27-12	S 99-26-13	Agusta	Rotorcraft: A109A and A109A II

**CESSNA AIRCRAFT COMPANY
AIRWORTHINESS DIRECTIVE
SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS**

99-27-02 CESSNA AIRCRAFT COMPANY: Amendment 39-11483; Docket No. 99-CE-24-AD. Issued December 20, 1999.

(a) What airplanes are affected by this AD?: The following airplane models and serial numbers that are:

(1) certificated in any category; and

(2) equipped with Fuel Selector Valve Cam part number 0513123, or FuelSelector Valve part number 0513120-5, 0513120-6, 0513120-8, 0513120-9, or 0513120-200; that Cessna shipped from December 6, 1998, through May 10, 1999:

<u>Model</u>	<u>Serial Numbers</u>
170B	20267 through 20999
170B	25000 through 27169
170B	609 and 19401
172	28000 through 29999
172	36000 through 36999
172	46001 through 46754
172	610, 612, and 615
172A	46755 through 47746
172A	622 and 625
172B	17247747 through 17248734
172B	630
172C	17248735 through 17249544
172D	17249545 through 17250572
172E	17250573 through 17251822
172E	639
172F	17251823 through 17253392
172G	17253393 through 17254892
172H	17254893 through 17256492
172H	17256494 through 17256512
172H	638
172I	17256513 through 17257161
172K	17257162 through 17258486
172K	17258487 through 17259223
172L	17259224 through 17259903
172L	17259904 through 17260758
172M	17260759 through 17261444
172M	17261446 through 17261577
172M	17261579 through 17261898
172M	17256493
172M	17261899 through 17263458
P172	P17257120 through P17257188
P172E (T41)	R172-0001 through R172-0335
R172F (T41)	R172-0336 through R172-0409
R172G (T41)	R1720410 through R1720444
R172H (T41)	R1720445 through R1720494
R172H (T41)	R1720495 through R1720546
R172H (T41)	R1720547 through R1720620
R172J	P17257189
R172K	R1722000 through R1722724
R172K	R1722725 through R1722929
R172K	R1722930 through R1723199
R172K	680
R172K	R1723200 through R1723397
R172K	R1723397 through R1723399
R172K	R1723400 through R1723454
175	28700A
175A	619

<u>Model</u>	<u>Serial Numbers</u>
175C	17557003 through 17557119
177	17700001
177	17700003 through 17701164
177	661
177A	17701165 through 17701370
177B	17701371 through 17701471
177B	17701473 through 17701530
177B	17701531 through 17701633
177B	17700002
177B	17701634 through 17701773
177B	17701774 through 17701973
177B	17701974 through 17702123
177B	17702124 through 17702313
177B	17701472
177B	17702314 through 17702522
177B	17702523 through 17702672
177B	17702673 through 17702752
F172D	F172-0001 through F172-0018
F172E	F172-0019 through F172-0085
F172F	F172-0086 through F172-0179
F172G	F172-0180 through F172-0319
F172H	F172-0320 through F172-0431
F172H	F172-0436 through F172-0442
F172H	F172-0444 through F172-0446
F172H	F172-0432 through F172-0435
F172H	F172-0443
F172H	F172-0447 through F172-0559
F172H	F172-0560 through F172-0654
F172H	F17200655 through F17200754
F172K	F17200755 through F17200804
F172L	F17200805 through F17200904
F172M	F17200905 through F17201034
F172M	F17201035 through F17201234
FP172	FP172-0001 through FP172-0003
FR172E	FR17200001 through FR17200060
FR172F	FR17200061 through FR17200145
FR172G	FR17200146 through FR17200225
FR172H	FR17200226 through FR17200275
FR172H	FR17200276 through FR17200350
FR172J	FR17200351 through FR17200440
FR172J	FR17200441 through FR17200530
FR172J	FR17200531 through FR17200559
FR172J	FR17200560 through FR17200590
FR172K	FR17200591 through FR17200620
FR172K	FR17200621 through FR17200630
FR172K	FR17200631 through FR17200655
FR172K	FR17200656 through FR17200665
FR172K	FR17200666 through FR17200675

(b) Who must comply with this AD?: Anyone who wishes to operate any of the above airplanes on the U.S. Register.

(c) What problem does this AD address?: The affected fuel selector valve cams or fuel selector valves, when installed, could result in an inadequate supply of fuel to the engine. This could then result in an emergency landing or loss of control of the airplane.

(d) What must I do to address this problem?: To address this problem, you must accomplish the replacement, records check, and/or installation prohibition requirements explained below, as applicable:

(1) Replacement Requirement

(i) What action is required?: Replace any Fuel Selector Valve Cam part number 0513123, or Fuel Selector Valve part number 0513120-5, 0513120-6, 0513120-8, 0513120-9, or 0513120-200, that Cessna shipped from December 6, 1998, through May 10, 1999. Paragraphs (d)(2)(i) and (d)(2)(ii) of this AD provide procedures for checking the maintenance records to determine if one of these fuel selector valve cams or fuel selector valves is installed.

(ii) What procedures must be used?: The procedures contained in Cessna Service Bulletin SEB99-7, dated June 7, 1999, and the applicable maintenance manual.

(iii) When is the action required?: Within the next 10 hours TIS after the effective date of this AD.

(2) Maintenance Records Check

(i) May the pilot check the maintenance records to determine if this AD applies?: Yes. The owner/operator holding at least a private pilot certificate as authorized by section 43.7 of the Federal Aviation Regulations (14 CFR 43.7) may check the maintenance records to determine whether one of the affected fuel selector valve cams or fuel selector valves was installed after December 6, 1998.

(ii) What if the maintenance records show that no affected fuel selector valve cam or fuel selector valve is installed?: If, by checking the maintenance records, the pilot can positively show that a Fuel Selector Valve Cam part number 0513123, or Fuel Selector Valve part number 0513120-5, 0513120-6, 0513120-8, 0513120-9, or 0513120-200, is not installed or was installed prior to December 6, 1998, then the replacement requirement of paragraph (b) of this AD does not apply. You must make an entry into the aircraft records that shows compliance with this portion of the AD, in accordance with section 43.9 of the Federal Aviation Regulations (14 CFR 43.9).

(3) Installation Prohibition Requirements

(i) What prevents these parts from being installed in the future?: You may not install a Fuel Selector Valve Cam part number 0513123 or Fuel Selector Valve part number 0513120-5, 0513120-6, 0513120-8, 0513120-9, or 0513120-200; that Cessna shipped from December 6, 1998, through May 10, 1999, in any of the affected airplanes.

(ii) When does this prohibition go into effect?: As of the effective date of this AD.

(e) Can I comply with this AD in any other way?: Yes.

(1) You may use an alternative method of compliance or adjust the compliance time if:

(i) Your alternative method of compliance provides an equivalent level of safety; and

(ii) The Manager, Wichita Aircraft Certification Office, approves your alternative. Submit your request through an FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager.

(2) This AD applies to each airplane identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (e)(1) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

(f) Where can I get information about any already-approved alternative methods of compliance?: Contact the Wichita Aircraft Certification Office, 1801 Airport Road, Room 100, Mid-Continent Airport, Wichita, Kansas, 67209; telephone: (316) 946-4143; facsimile: (316) 946-4407.

(g) What if I need to fly the airplane to another location to comply with this AD?: The FAA can issue a special flight permit under sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate your airplane to a location where you can accomplish the requirements of this AD.

(h) Are any service bulletins incorporated into this AD by reference?: Yes. You must accomplish the actions required by this AD in accordance with Cessna Service Bulletin SEB99-7, dated June 7, 1999. The Director of the Federal Register approved this incorporation by reference under 5 U.S.C. 552(a) and 1 CFR part 51. You can get copies from the Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, Kansas 67277. You can look at copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri, or at the Office of the Federal Register, 800 North Capitol Street, NW, suite 700, Washington, DC.

(i) When does this amendment become effective?: This amendment becomes effective on January 21, 2000.

FOR FURTHER INFORMATION CONTACT:

Mr. Paul O. Pendleton, Aerospace Engineer, FAA, Wichita Aircraft Certification Office, 1801 Airport Road, Rm 100, Mid-Continent Airport, Wichita, Kansas, 67209; telephone: (316) 946-4143; facsimile: (316) 946-4407.

**AGUSTA SPA
AIRWORTHINESS DIRECTIVE
SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS**

99-27-12 AGUSTA S.p.A.: Amendment 39-11493. Docket No.99-SW-91-AD. Supersedes AD 99-26-13, Amendment 39-11472, Docket No. 99-SW-64-AD. Issued December 27, 1999.

Applicability: Model A109A and A109A II helicopters, with tail rotor blade (blade), part number (P/N) 109-0132-02-all dash numbers, with 400 or more hours time-in-service (TIS), installed, certificated in any category.

NOTE 1: This AD applies to each helicopter identified in the preceding applicability provision, regardless of whether it has been otherwise modified, altered, or repaired in the area subject to the requirements of this AD. For helicopters that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (c) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

Compliance: Required as indicated, unless accomplished previously.

To prevent fatigue failure of a blade, loss of the tail rotor, and subsequent loss of control of the helicopter, accomplish the following:

(a) Before further flight, dye-penetrant inspect each blade for a crack in accordance with the Compliance Instructions, Part I, of Agusta S.p.A. Bollettino Tecnico 109-110, dated July 28, 1999 (technical bulletin). Thereafter, at intervals not to exceed 100 hours TIS, dye-penetrant inspect each blade for a crack in accordance with the Compliance Instructions, Part III, of the technical bulletin. If a crack is found, replace the cracked blade with an airworthy blade before further flight.

(b) Before the first flight each day, visually inspect each blade for a crack using a 3 to 5 power magnifying glass in accordance with the Compliance Instructions, Part II, of the technical bulletin. If a crack is found, replace the cracked blade with an airworthy blade before further flight.

(c) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Regulations Group, FAA, Rotorcraft Directorate. Operators shall submit their requests through an FAA Principal Maintenance Inspector, who may concur or comment and then send it to the Manager, Regulations Group.

NOTE 2: Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the Regulations Group.

(d) Special flight permits will not be issued.

(e) The inspections shall be done in accordance with the Compliance Instructions of Agusta S.p.A. Bollettino Tecnico 109-110, dated July 28, 1999. The incorporation by reference of that document was approved previously by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51 as of January 4, 2000. Copies may be obtained from Agusta, 21017 Cascina Costa di Samarate (VA), Via Giovanni Agusta 520, telephone (0331) 229111, fax (0331) 229605-222595. Copies may be inspected at the FAA, Office of the Regional Counsel, Southwest Region, 2601 Meacham Blvd., Room 663, Fort Worth, Texas; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

(f) This amendment becomes effective on January 5, 2000.

NOTE 3: The subject of this AD is addressed in Registro Aeronautico Italiano, Italy, AD 99-325, dated August 2, 1999.

FOR FURTHER INFORMATION CONTACT: Richard A. Monschke, Aerospace Engineer, FAA, Rotorcraft Directorate, Rotorcraft Standards Staff, 2601 Meacham Blvd., Fort Worth, Texas 76137, telephone (817) 222-5116, fax (817) 222-5961.